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<120>  Methods of Optimizing Antibody Variable Region Binding Affinity
<130>  AME-06352
<140>  09/434,870
<141>  1999-11-04
<150>  60/159,689
<151>  1999-10-14
<160>  4
<170>  PatentIn version 3.0
<210>  1
<211>  107
<212>  PRT
<213>  Mus musculus
<400>  1
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Asp 1	Ile	Val	Leu 5	Thr	Gln	Ser	Pro	Ala 10	Thr	Leu	Ser	Val	Thr 15	Pro	Gly
Asp	Arg	Val 20	Ser	Leu	Ser	Cys	Arg	Ala 25	Ser	Gln	Ser	Ile	Ser 30	Asp	Tyr
Leu	His 35	Trp	Tyr	Gln	Gln	Lys 40	Ser	His	Glu	Ser	Pro	Arg 45	Leu	Leu	Ile
Lys 50	Tyr	Ala	Ser	His	Ser	Ile 55	Ser	Gly	Ile	Pro	Ser 60	Arg	Phe	Ser	Gly
Ser 65	Gly	Ser	Gly	Ser	Asp 70	Phe	Thr	Leu	Ser	Ile 75	Asn	Ser	Val	Glu	Pro 80
Glu	Asp	Val	Gly 85	Ile	Tyr	Tyr	Cys	Gln	His 90	Gly	His	Ser	Phe	Pro 95	Arg
Thr	Phe	Gly 100	Gly	Gly	Thr	Lys	Leu	Glu 105	Ile	Lys					

<210> 2

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Leu
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 3

<211> 122

<212> PRT

<213> Mus musculus

<400> 3

Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu
1 5 10 15

Thr Val Arg Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Thr Thr
20 25 30

Gly Met Gln Trp Val Gln Glu Met Pro Gly Lys Gly Leu Lys Trp Ile
35 40 45

Gly Trp Ile Asn Thr His Ser Gly Val Pro Lys Tyr Val Glu Asp Phe
50 55 60

Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Asn Thr Ala Tyr
65 70 75 80

Leu Gln Ile Ser Asn Leu Lys Asn Glu Asp Thr Ala Thr Tyr Phe Cys
85 90 95

Val Arg Ser Gly Asn Gly Asn Tyr Asp Leu Ala Tyr Phe Ala Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ala
115 120

<210> 4

<211> 113

<212> PRT

<213> Homo sapiens

<400> 4

Gln Val Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Thr Asn Thr Gly Asn Pro Thr Tyr Ala Gln Gly Phe
50 55 60

Thr Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Ser Thr Ala Tyr
65 70 75 80

Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
100 105 110

Ser